

Title (en)  
COMPUTATION DEVICE AND PARALLAX CALCULATION METHOD

Title (de)  
BERECHNUNGSVORRICHTUNG UND PARALLAXENBERECHNUNGSVERFAHREN

Title (fr)  
DISPOSITIF DE CALCUL ET PROCÉDÉ DE CALCUL DE PARALLAXE

Publication  
**EP 3933341 A1 20220105 (EN)**

Application  
**EP 20762912 A 20200205**

Priority

- JP 2019036151 A 20190228
- JP 2020004342 W 20200205

Abstract (en)  
An arithmetic device includes a storage unit that stores a coarse distance image indicating a parallax in units of first blocks, a first parallax search unit that uses a standard image that is an image captured by a first camera and a reference image that is an image captured by a second camera to calculate, in units of second blocks having a size equal to or smaller than that of the first block, a parallax in the standard image based on a parallax candidate that is a candidate for a parallax for each of the second blocks, and generate a detailed distance image that is a distance image in detail, and a candidate calculation unit that calculates the parallax candidate based on a parallax of a parent block that is a region having a size of the first block including the second block for which the first parallax search unit calculates a parallax, a parallax of an adjacent block that is a region having the size of the first block adjacent to the parent block, and a search condition.

IPC 8 full level  
**G01C 3/06** (2006.01); **G06T 7/593** (2017.01); **G08G 1/16** (2006.01)

CPC (source: EP)  
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